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10/644,683	08/19/2003	Robert A. Dunstan	110349-133957	6454
25943	7590 12/15/2005		EXAMINER	
•	WILLIAMSON & WY	RUTLAND WALLIS, MICHAEL		
1211 SW FIFT	ENTER, SUITE 1900 I'H AVENUE		ART UNIT	PAPER NUMBER
PORTLAND,	OR 97204		2835	

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/644,683	DUNSTAN, ROBER	DUNSTAN, ROBERT A.	
Office Action Summary	Examiner	Art Unit	60).'	
	Michael Rutland-Wallis	2835		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with t	he correspondence addr	ress	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	TION. be timely filed from the mailing date of this comi		
Status				
<ul> <li>1) ⊠ Responsive to communication(s) filed on 14</li> <li>2a) ☐ This action is FINAL. 2b) ⊠ TI</li> <li>3) ☐ Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	his action is non-final. vance except for formal matters		merits is	
Disposition of Claims				
4) ☐ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Exam  10) ☑ The drawing(s) filed on 19 August 2003 is/ar  Applicant may not request that any objection to t  Replacement drawing sheet(s) including the corr  11) ☐ The oath or declaration is objected to by the	re: a) $\square$ accepted or b) $\square$ objective drawing(s) be held in abeyance. The rection is required if the drawing(s) is	See 37 CFR 1.85(a). is objected to. See 37 CFR	R 1.121(d).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a	ents have been received. ents have been received in Appl riority documents have been rec eau (PCT Rule 17.2(a)).	ication No ceived in this National S	Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 11/03/2003. Il/IU/03		nmary (PTO-413) fail Date mal Patent Application (PTO-	-152)	

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#### **DETAILED ACTION**

#### Information Disclosure Statement

The information disclosure statement filed 11/14/2005 fails to comply with 37 CFR 1.98 because it does not include a clear and concise explanation of the relevant pages or passages. Applicant has pointed out pages ii-562, which encompass the entire document therefore the IDS, has not been considered.

## Claim Objections

In claim 34 and 38 line 2 the limitation "to perform the selected one of the settings" this language does account for when both settings "a" and "b" are performed. As claim 33 from which 34 and 38 depend may perform both settings "a" and "b" and when read in such a manner renders the claim unclear. It is suggested by the examiner to be changed to read "to either perform the selected one or both of the settings" or "to either perform the selected setting b or both of the selected settings"

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 14 and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. "facilitating specification to the apparatus the period of the time" and "facilitating specification to the apparatus the period of the time to the system" it cannot be determined what the applicant is intending to claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 12, 15 and 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Haun et al. (U.S. Pat. No. 5,162,664).

With respect to claim 1 Haun teaches a method of operation comprising: powering the apparatus from a backup power source (a battery item 121), in response to the apparatus being in an AC absence condition (AC power provided through power line 100 during normal operations); and after drawing on the backup power source for a period of time, automatically shutting off the backup power source (Haun teaches disabling the backup source after all data has been transmitted column 4 lines 17-20).

With respect to claim 12 and 31 Haun teaches monitoring for absence of AC to the power supply; and generating a signal (sends a signal to transistor item 112 see

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column 3 lines 20-25) indicating AC absence on detection of absence of AC to the power supply.

With respect to claim 15 and 30 Haun teaches A system comprising: a power supply (AC power provided through power line 100 during normal operations) to supply power to the system, including a backup power source (a battery item 121) to supply power during absence of AC to the power supply; and an arrangement (transistor 112 controlled by micro-computer 110) coupled to the power supply to shut off the power supply, after drawing on the backup power source for a period of time to power the system during the AC absence (Haun teaches disabling the backup source after all data has been transmitted column 4 lines 17-20).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Fisher Jr. "hereinafter Fisher" (U.S. Pat. No. 6,462,507).

With respect to claim 2 and 16 Haun teaches a system where the backup supply is turned off after to conserve power for future communications. Haun does not teaches

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the scheduling a real time clock to initiate waking of the apparatus after the period of time, to shut off of the backup power source. Fisher teaches a system where a backup energy storage source is connected. In column 23 lines 50-65 Fisher teaches a controller (item 37) which periodically wakes up after a predetermined time executing control signals and performing timing operations. Fisher uses this suspended type mode of operation to conserve the power drawn from the rechargeable source, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Haun to suspend the system in response to a AC absent condition an to initiate waking of the apparatus after a predetermined period of time to facilitate the shutting off of the backup source to enable processing to complete before the backup source is deactivated.

Claims 3-6 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Fisher (U.S. Pat. No. 6,462,507) as applied to claim 2 above, and further in view of Wong et al. (U.S. Pat. No. 6,509,657).

With respect to claim 3, 5 and 17 Haun as modified by Fisher do not teach a BIOS in a process initiated by an operating system of the apparatus to suspend the apparatus to memory, in response to the AC absence condition, to schedule the RTC to initiate waking of the apparatus after the period of time. Wong teaches operating system with a BIOS to facilitate the apparatus to suspended memory state. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the OS and BIOS of Wong in the device of Haun as modified by Fisher in order to conserve the reserve battery.

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With respect to claim 6 Wong teaches program instructions which are designed to facilitate enabling the apparatus to perform the shut off conditioned when AC remains absent at the apparatus. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Wong to use the logic of turning off the device based on a real time clock of the type seen in Fisher in order to better conserve the battery life of the reserve source.

With respect to claim 4 and 18 Haun as modified by Fisher does not teach a BIOS canceling the waking of the apparatus in response to an AC re-present condition. Wong teaches an interrupt handler routine and BIOS interface which comprises a self test to test whether the system is running on AC power of backup power and canceling or not allowing the powering up of the apparatus if the AC power is not present. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Haun as modified by Fisher to further include the use of the self test to cancel the return to waking if AC conditions are not present in order to conserve the backup power source.

With respect to claim 19 Haun as modified by Fisher do not teach a BIOS to shut off the backup source the clock wakes the system up. Wong teaches operating system with a BIOS to facilitate the apparatus to suspended memory state. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the OS and BIOS of Wong in the device of Haun as modified by Fisher in order to conserve the reserve battery.

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With respect to claim 20 Haun as modified by Fisher do not teach a BIOS which is further equipped to cause the backup the backup source to shut off the backup source when AC power is absent. Wong teaches operating system with a BIOS to facilitate the apparatus to suspended memory state. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the OS and BIOS of Wong in the device of Haun as modified by Fisher in order to conserve the reserve battery.

Claims 7, 10-11, 21, 26 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Sanderford, Jr. "hereinafter Sanderford" (U.S. Pat. No. 4,684,945).

With respect to claims 7, 21 and 32 Haun teaches arrangement comprises a micro-computer which controls the shutting off of the backup power source, while micro-computers are known to contain timers and clocks of various sorts Haun is silent on the use on the use of a timer set to expire after a period of time, to facilitate shutting off of the backup power source. Sanderford teaches an IC logic circuit which contains a timer to shut off a battery backup device (column 6 lines 1-5). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the timer circuit of Sanderford to control the amount of time the system draws from the backup source in order to ensure the backup supply is only used for a limited amount of time.

With respect to claim 10 Sanderson's timer expires after about one minute. Sanderson system also uses comparison logic (multiple ICs seen in Fig 5A-D) to facilitate the operation of shutting off the backup source.

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With respect to claim 11 Haun's system shuts off the back source if the AC remains absent

With respect to claim 26 Haun teaches system further comprises a controller (item 110) to control at least a selected one of an input (select power line or battery) and an output (item 127 display) of the system. While it is know that timers are present in micro-computers if it is held that Haun does not teach the presence of a timer. Sanderford teaches an IC logic circuit which contains a timer to shut off a battery backup device (column 6 lines 1-5). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the timer circuit of Sanderford to control the amount of time the system draws from the backup source in order to ensure the backup supply is only used for a limited amount of time.

Claims 9, 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Sanderford, Jr. (U.S. Pat. No. 4,684,945) as applied to claim 7 and 21 above, and further in view of Wong et al. (U.S. Pat. No. 6,509,657). Haun as modified by Sanderford teach system of claim 7 but do not teach the use of BIOS canceling the waking. Wong teaches an interrupt handler routine and BIOS interface which comprises a self test to test whether the system is running on AC power of backup power and canceling or not allowing the powering up of the apparatus if the AC power is not present. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Haun as modified by Sanderford to further include the use of the self test to cancel the return to waking if AC conditions are not present in order to conserve the backup power source.

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With respect to claim 22 Haun as modified by Sanderford teaches the apparatus of claim 9 but do not teach the use of a BIOS to couple the timer to intervene in a process initiated by the OS to suspend the system. Wong teaches the system uses Microsoft® Windows 98® which is know to store personal settings and configurations in memory when the system is properly shut down and Wong's system is designed to enable the user to properly shut the system column 6 lines 35-45. Once the user is displayed an alert message by the timer indicating the reaming time the user may intervene to properly shut down the system to enable the storing of the current configuration of the system to memory. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the process of Haun to include the use of a BIOS as seen in Wong in order to provide a more sophisticated user interface to the to enable the user to intervene in the system response.

With respect to claim 23 Wong teaches an interrupt handler routine and BIOS interface which comprises a self test to test whether the system is running on AC power of backup power and canceling or not allowing the powering up of the apparatus if the AC power is not present. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Haun as modified by Sanderford to further include the use of the self test to cancel the return to waking if AC conditions are not present in order to conserve the backup power source.

With respect to claim 24 Sanderford teaches a signal to turn off the backup power device at the expiration of the timer (column 6 lines 1-5).

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With respect to claim 25 Haun teaches the circuit (item 110) is further equipped to receive an AC condition signal indicating whether AC presence or absence, and condition the generation of the shut off signal based on the AC condition signal.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Brown. (U.S. Pat. No. 5,854,904).

With respect to claim 13 Haun teaches the monitoring and generating are performed by the controller. While Haun shows all components are separate, it is held by the examiner that the power supply line output of the micro-computer may be considered the output of the power supply as it supplies power to the controlled devices. Brown teaches a similar configuration where a power supply is coupled to control elements and monitoring components to aid in the switching to and from a backup source. Brown teaches a power supply which contains all the components necessary to control the power requirements of a computer. Brown in fact refers to his power supply module as a small computer col. 11 line 23 further see col. 11 lines 15-53. While Haun does teach using the configuration of a power supply module it would have been obvious to one of ordinary skill in the art to use or consider the power supply where the power is fed to the device in order to enable a power supply capable of controlling and switching to a backup system when the primary system power is unreliable or to modify Haun to use the power supply module (item 82 Brown) of Brown to enable a power supply capable of controlling and switching to a backup system when the primary system power is unreliable.

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Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Sanderford, Jr. (U.S. Pat. No. 4,684,945) as applied to claim 21 above, and further in view of Brown. (U.S. Pat. No. 5,854,904). Haun as modified by Sanderford teaches the use of timer to control to switching to the backup source. While Haun shows all components are separate, it is held by the examiner that the power supply line output of the micro-computer may be considered the output of the power supply as it supplies power to the controlled devices. Brown teaches a similar configuration where a power supply is coupled to control elements and monitoring components to aid in the switching to and from a backup source. Brown teaches a power supply which contains all the components necessary to control the power requirements of a computer. Brown in fact refers to his power supply module as a small computer col. 11 line 23 further see col. 11 lines 15-53. While Haun does teach using the configuration of a power supply module it would have been obvious to one of ordinary skill in the art to use or consider the power supply where the power is fed to the device in order to enable a power supply capable of controlling and switching to a backup system when the primary system power is unreliable or to modify Haun to use the power supply module (item 82 Brown) of Brown to enable a power supply capable of controlling and switching to a backup system when the primary system power is unreliable.

Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haun et al. (U.S. Pat. No. 5,162,664) in view of Wong et al. (U.S. Pat. No. 6,509,657). Haun teaches the system uses a remotely located computer terminal (item 106) but does not

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teach use of a network interface. Wong teaches the use of an uninterruptible power supply with a network interface (column 1 lines 35-43). It would have been obvious to one of ordinary skill in the art to connect the output to a network interface in order to protect a network from power failure.

Claims 33-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong et al (U.S. Pat. No. 6,509,657) in view of Sanderford, Jr. (U.S. Pat. No. 4,684,945).

With respect to claim 33 Wong teaches a storage medium (memory onboard the microcontroller or mother board items 20 and 22), a plurality of programming instruction stored therein, designed to enable an apparatus to be able to perform, when the apparatus is in an AC absence condition (an interrupt handler routine and BIOS item 44). Wong teaches the use of monitoring function to display or alert to the user of time reaming on the backup power supply (column 6 lines 19-45) and While it is held by the examiner that the display of an alert message to the user indicating the time remaining of the backup power supply will be operable facilitates the user to the shut off the backup power supply if it is held by the applicant otherwise it would also have been obvious to use the operation of Sanderford where Sanderford teaches an IC logic circuit and a means for storing electronic information such as safe combination codes.

Sanderford system contains a timer to shut off a battery backup device (column 6 lines 1-5). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the timer circuit of Sanderford to control the amount of time the system

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draws from the backup source in order to ensure the backup supply is only used for a limited amount of time.

With respect to claim 34 Wong teaches the programming instructions are further designed to perform setting the timer, when intervening in a process to suspend the apparatus to memory. Wong teaches the system uses Microsoft® Windows 98® which is know to store personal settings and configurations in memory when the system is properly shut down and Wong's system is designed to enable the user to properly shut the system column 6 lines 35-45. Once the user is displayed the alert message by the timer indicating the reaming time the user may intervene to properly shut down the system to enable the storing of the current configuration of the system to memory.

With respect to claim 35 Wong teaches an interrupt handler routine and BIOS interface which comprises a self test to test whether the system is running on AC power of backup power and canceling or not allowing the powering up of the apparatus if the AC power is not present. It would have been obvious to one of ordinary skill in the art at the time of the invention to use of the self test to cancel the return to waking if AC conditions are not present in order to conserve the backup power source.

With respect to claim 36 Wong teaches program instructions which would enable the user to shut off the back source. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Wong to use the logic of turning off the device based on a real time clock of the type seen in Sanderford in order to better conserve the battery life of the reserve source.

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With respect to claim 37 Wong teaches program instructions which are designed to facilitate enabling the apparatus to perform the shut off when AC remains absent at the apparatus. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Wong to use the logic of turning off the device based on a real time clock of the type seen in Sanderford in order to better conserve the battery life of the reserve source.

With respect to claim 38 Wong teaches the BIOS is used to interface motherboard and the micro-controller and select the selected setting (column 1 lines 1-45).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jones et al (U.S. Pat No. 6,078,595) teaches a device similar to claim 1 used in a network and backplane configuration, Green et al (U.S. Pat. No 6,204,573) disconnecting a power supply after a period of time, Nakamura (Pub No. 20020089233) teaches an uninterruptible power source which has a timing function and control associated, Nemoto (U.S. Pat. No 5,307,318) teaches uninterruptible power supply used in a computer system, Landis et al. (U.S. Pat. No 5,831,347) teaches in more detail the use of a real time clock and other power supply switching controls associated to monitoring a time delay.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Rutland-Wallis whose telephone number is 571-272-5921. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MRW

LYNN FEILD SUPERVISORY PATENT EXAMINER

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